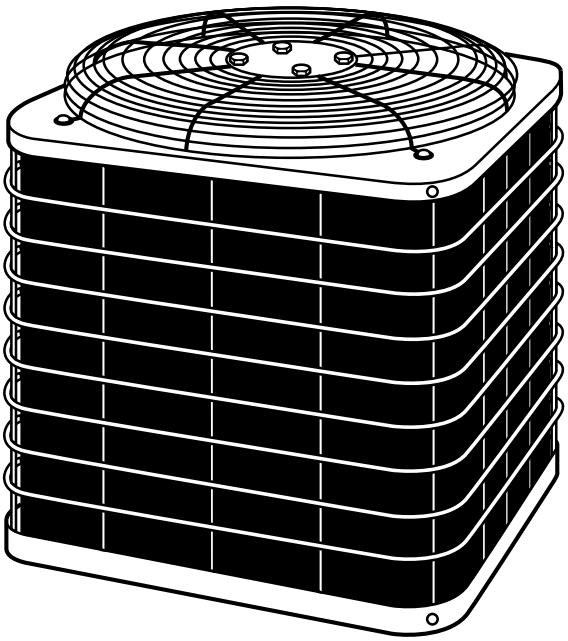
bryant
Heating & Cooling Systems

561C (60 Hz)

ELECTRIC AIR CONDITIONER

Sizes 018 thru 060



Model 561C Energy-Efficient Air Conditioners incorporate innovative technology to provide reliable summer cooling performance. Built into these units are the features most desired by homeowners today including SEER ratings of up to 11.5 when used with components designated by manufacturer. All models are listed with UL, c-UL, ARI, CEC, and CSA-EEV.

AVAILABLE OPTIONS

UNIT DESIGN—Copper tube, enhanced sine wave aluminum fin coil is designed for optimum heat transfer. Vertical air discharge carries sound and hot condenser air up and away from adjacent patio areas and foliage. Heat pump-style base pan for easy removal of water, dirt, and leaves.

ELECTRICAL RANGE—All units are offered in 208–230v single phase. Three-phase units are available from 030 through 060 sizes in 208/230v and from 036 through 060 sizes in 460v.

WIDE RANGE OF SIZES—The 561C is available in 7 nominal sizes from 018 through 060 to meet the needs of residential and light commercial applications.

WEATHER-PROTECTIVE CABINET—The steel panels are protected with a galvanized coating then covered with a layer of zinc phosphate. A modified polyester powder coating is then applied and baked on, providing each unit with a hard, smooth finish that will last for many years.

All screws on cabinet exterior are coated for a long-lasting, rust-resistant, quality appearance.

TOTALLY ENCLOSED FAN MOTOR—Means greater reliability under rain conditions and dependable performance for many years. The permanent-split-capacitor-type motor was designed for optimum efficiency. Then, under extreme conditions, the motor was tested and qualified to help ensure the greatest reliability.

APPLICATION VERSATILITY—The unit can be combined with a wide variety of evaporator coils and blower packages to provide quiet, dependable comfort. Unit can be installed on a roof or at ground level on a slab.

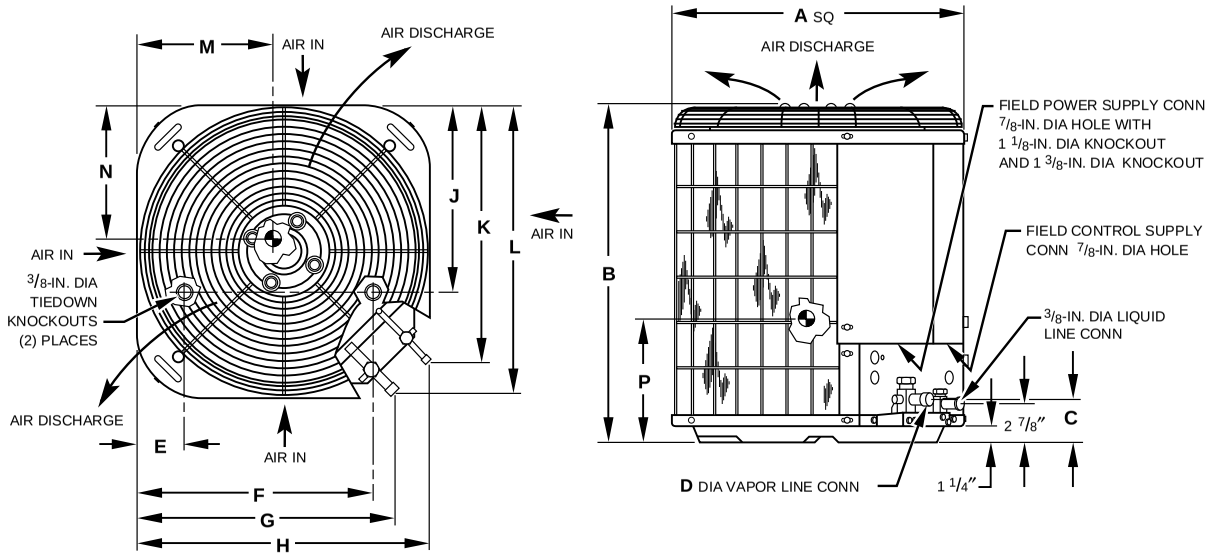
EXTERNAL SERVICE VALVES—The service valves are brass, front seating type. The 561C has sweat field connections. Valves are externally located so refrigerant tube connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.

EASY SERVICEABILITY—One access panel provides access to electrical controls and compressor. Removal of wire dome gives access to fan motor and removal of the top gives access to the coil.

COMPRESSOR PROTECTION—Each compressor is protected with internal temperature- and current-sensitive overloads. An internal pressure relief valve provides high-pressure protection to the refrigerant system.

LIMITED WARRANTY—Standard 1-year warranty on parts, with an additional 4-year warranty on compressor.

Form No. PDS 561C.18.6



NOTES:

1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F, max. 125°F.
3. Series designation is the 14th position of the unit model number.
4. Center of gravity ⊕.

A97017

DIMENSIONS (IN.)

UNIT SIZE	SERIES	UNIT DIMENSIONS														MINIMUM MOUNTING PAD DIMENSIONS
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	
018	A, D	18	21-15/16	3-3/16	5/8	3	15	16-5/16	17-3/4	10-3/16	16-1/8	17-3/4	7-7/8	8-3/8	9-3/8	18 X 18
024	A, D	18	23-15/16	3-3/16	5/8	3	15	16-5/16	17-3/4	10-3/16	16-1/8	17-3/4	7-7/8	8-3/8	9-1/2	18 X 18
030	A, D	22-1/2	21-15/16	3-3/16	3/4	3-11/16	18-1/8	19-3/4	22-1/4	14-3/8	19-9/16	22-1/16	10-3/8	10-1/4	10-3/4	22-1/2 X 22-1/2
036	A, B, D	22-1/2	25-15/16	3-3/16	3/4	3-11/16	18-1/8	19-3/4	22-1/4	14-3/8	19-9/16	22-1/16	10-1/4	9-1/2	11-1/4	22-1/2 X 22-1/2
036	E	22-1/2	25-15/16	3-3/16	3/4	3-11/16	18-1/8	19-3/4	22-1/4	14-3/8	19-9/16	22-1/16	10-3/8	10-3/4	11-1/4	22-1/2 X 22-1/2
042	A, C	22-1/2	29-15/16	3-1/4	7/8	3-11/16	18-1/8	19-13/16	22-1/4	14-3/8	19-9/16	22-1/16	10-1/4	9-1/2	11-5/8	22-1/2 X 22-1/2
042	B	22-1/2	29-15/16	3-1/4	7/8	3-11/16	18-1/8	19-13/16	22-1/4	14-3/8	19-9/16	22-1/16	10-3/8	10-3/4	11-1/8	22-1/2 X 22-1/2
048	A, B, C	30	27-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-3/4	20	27-1/16	29-9/16	15	13	14-1/2	30 X 30
060	A, E	30	35-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-3/4	20	27-1/16	29-9/16	15-1/2	14	15-1/2	30 X 30
060	B	30	29-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-3/4	20	27-1/16	29-9/16	15-1/2	14	15	30 X 30

CHECK-FLO-RATER® PISTON CHART

UNIT SIZE	PISTON* IDENTIFICATION NO.
018-A, D	52
024-A, D	57
030-A, D	67
036-A, D, E	73
036-B	70
042-A, C	76
042-B	82
048-A, C	88
048-B	84
060-A, E	93
060-B	90

* Piston listed is for any approved coil non-capillary tube combination. Piston is shipped with outdoor unit and must be installed in an approved indoor coil.

RECOMMENDED TUBE DIAMETERS

UNIT SIZE	Liquid Tube Diameter (In.)		Vapor Tube Diameter (In.)	
	0 to 50 Ft Tube Length	Long-Line Applications*	0 to 50 Ft Tube Length	Long-Line Applications* (Maximum Diameter)
018, 024	3/8	3/8	5/8	3/4
030, 036			3/4	7/8
042, 048			7/8	1-1/8
060			1-1/8	1-1/8

* For tube sets between 50 and 175 ft, consult Residential Split System Long-Line Application Guideline.

SOUND POWER (dBA)

UNIT SIZE	SOUND LEVEL (dBA)	OCTAVE BAND CENTER FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	8000
018-A	80	55.5	64.0	68.5	73.0	71.0	66.5	59.5
018-D	80	57.5	64.0	69.5	72.0	71.5	68.0	60.0
024-A	80	59.5	65.0	69.5	74.0	73.0	70.0	62.0
024-D	82	55.5	63.0	68.0	71.0	70.5	67.5	58.5
030-A	80	55.0	62.5	73.5	74.0	71.0	67.5	59.5
030-D	80	54.0	68.5	72.5	73.0	70.5	67.0	61.5
036-A	82	57.0	64.5	73.0	74.0	72.0	73.0	65.5
036-B	82	55.0	64.0	73.0	74.5	72.0	68.5	64.0
036-D	82	56.0	64.5	69.0	75.5	75.0	72.0	69.5
036-E	82	56.5	70.0	73.5	75.5	74.5	71.0	65.0
042-A	82	58.0	69.5	73.0	71.5	69.5	68.0	63.5
042-B	82	59.0	66.5	68.5	75.5	71.5	73.0	65.5
042-C	82	57.0	69.0	72.5	71.5	69.5	68.0	64.0
048-A	82	58.5	72.5	74.0	77.0	72.5	70.0	65.0
048-B	82	57.0	67.5	72.0	73.0	68.5	67.0	60.5
048-C	82	61.0	69.0	70.0	74.0	75.5	74.5	66.5
060-A	82	57.5	68.0	69.0	72.5	70.5	71.0	70.0
060-B	82	57.5	69.5	75.0	76.0	70.5	69.0	63.0
060-E	82	58.0	64.0	70.0	74.0	72.0	71.0	67.0

CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI.

CERTIFICATE NO. FM 28768
REGISTERED QUALITY SYSTEM

APPROVALS
ISO 9001
EN 29001
BS 5750 PART 1
ANSI/ASQC Q91

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